

July Members' Meetings

Dates & Times

Matinee 2:30 p.m., Wednesday, July 13
Evenings, 8:00 p.m., Wednesday and
Thursday, July 13 and 14, 1983

Place

May Treat Morrison Auditorium

Speaker

Lloyd Kiff

Subject

"History and Natural History of the
California Condor

With its nine-foot wing span and its incredible ability to soar as high as two miles and as far as one hundred, the largest free-living bird in North America, the condor, soars majestically over a preserve in southern California. The California condor is as impressive today as it was when worshipped by Indian tribes, but sadly, its numbers have declined steadily within historical times and virtually all recorded mortality has been human-induced. Only twenty of these spectacular birds now remain.

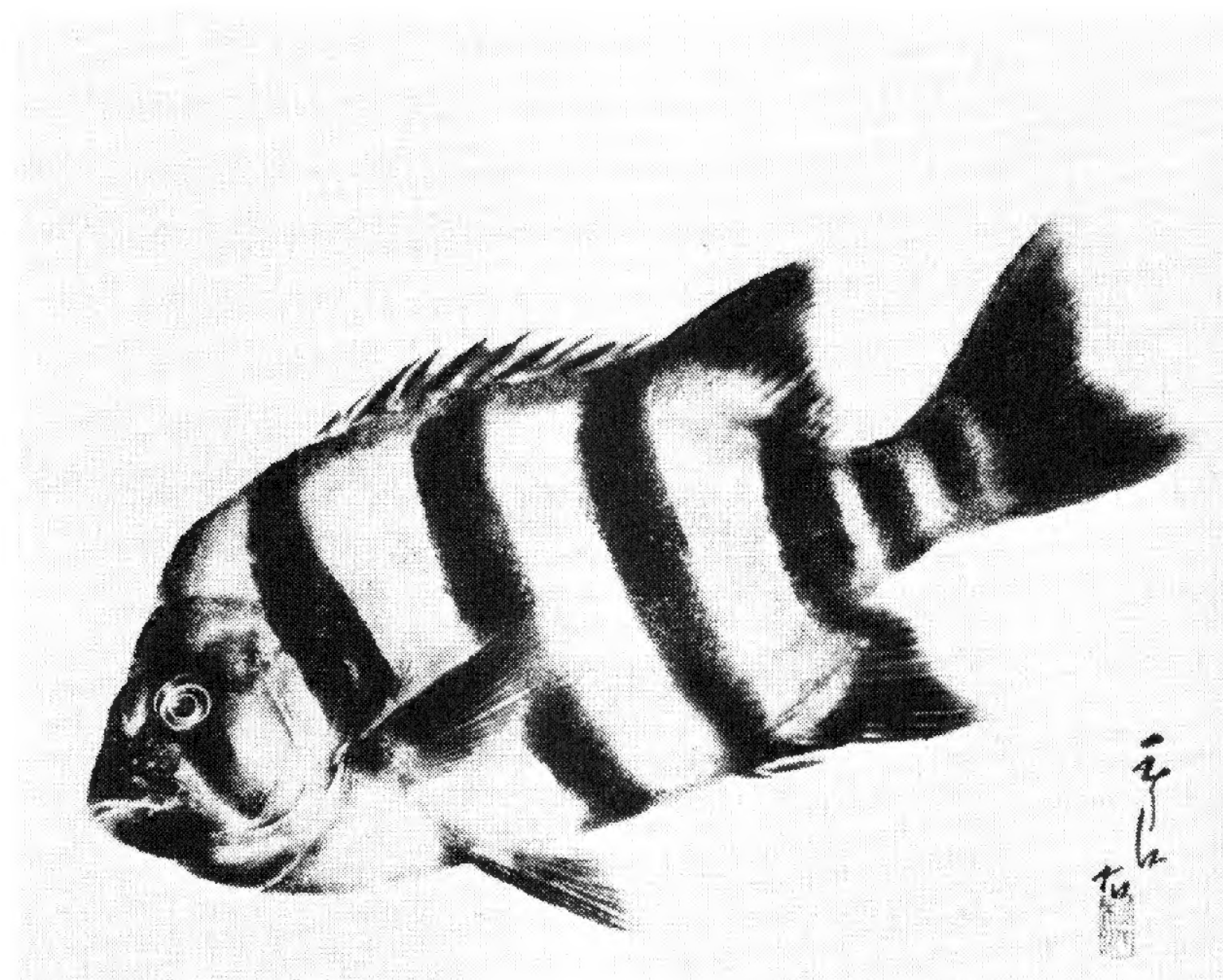
In his slide/lecture, Lloyd Kiff, Curator of the Western Foundation of Vertebrate Zoology in Los Angeles, will discuss the milestones in the decline of the species, and will trace the history of the condor and man's relations with it, with special emphasis on the pre-management era.

Mr. Kiff has been at the Western Foundation since 1968 where he is deeply involved in programs to save endangered birds, especially the condor and the Peregrine Falcon. His other research interests include Neotropical birds and he has made countless trips to Central and South America, Africa and Borneo.

As usual, your membership card gives you free admission through the main entrance at Cowell Hall and through the Wattis Hall entrance for the matinee program. For the afternoon meeting, please be prepared to show your membership card at the auditorium door for admission.

SNEAK PREVIEW: At the August 10 and 11 Members' Meetings Dr. B.J.D. Meeuse will introduce the film "Sexual Encounters of the Floral Kind."

Special Exhibits

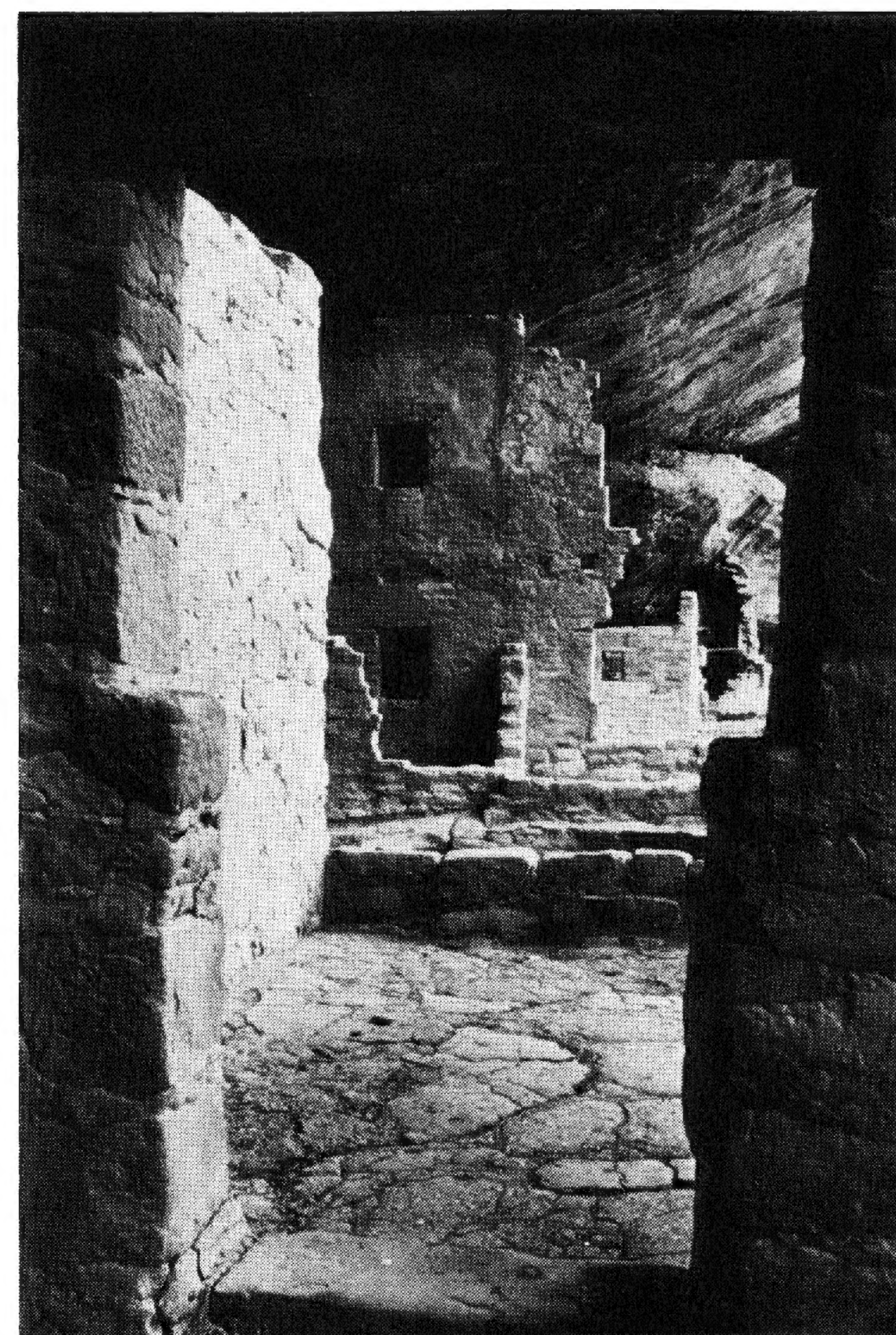


Parrot Fish, 1980 Syuko Ochiai

The ancient art of nature printing, or *gyotaku*, is celebrated in a new exhibit of 55 nature prints on display in **Pressed on Paper: Fish Rubbings and Nature Prints** beginning July 2 in Hohfeld Gallery I.

Nature prints are produced by applying ink or pigment to a plant, leaf, fish, shell, rock or other natural history object and then placing a piece of paper over the object and rubbing the paper. The result is a striking image that simply and precisely captures the subtle and graceful beauty of nature. Before photography, the method was used to record a fisherman's catch and to illustrate 17th and 18th century plant books.

The works on view, representing 26 print-makers from the United States, and Canada, was organized by the Santa Barbara Museum of Natural History and the Nature Printing Society. It is the largest and most comprehensive selection of nature prints by American artists ever assembled. The exhibit is being circulated to various museums by the Smithsonian Institution Traveling Exhibition Service (SITES).

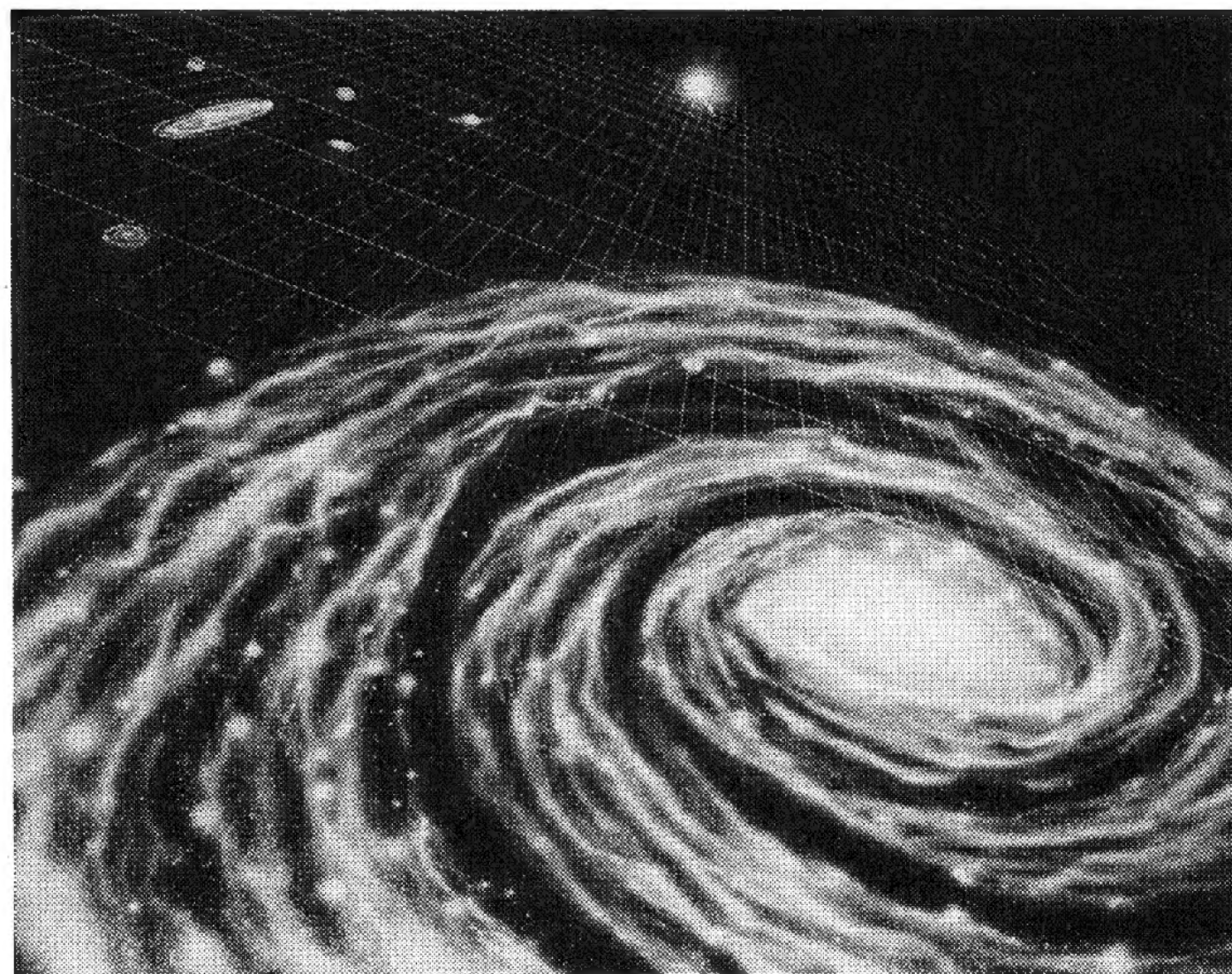


From the new exhibit
"Windows and Walls"

Scattered across the southwestern corner of North America are the bones, artifacts and ruins of the past, leftovers of cultures and civilizations markedly different and yet similar to that of our own.

A new exhibition, by photographer Jeff Nicholas, entitled *Windows and Walls*, explores the prehistoric sites occupied by the Anasazi, Mogollon and Hohokam groups, focusing on rock art and architecture. Opening July 6 in Cowell Hall.

Continuing exhibits include **Crossroads of the Ancient World: Israel's Archaeological Heritage**, **Fancy Colored Diamonds: The Rainbow Gems Collection**, **Imogen Cunningham Photo Contest for Young People winners**, and **The Quilt**, a queen size tribute to marine mammals from the California Marine Mammal Center.



The cosmic voyage continues! Morrison Planetarium's spectacular summer presentation, **Light at the Edge of the Universe**, takes visitors on a tour of the wonders of the universe to discover black holes, pulsars, multiple suns, a galaxy called "Snickers", quasars, and the ghostly echo of the explosive birth of the entire universe... **THE BIG BANG!**

Light at the Edge of the Universe can be seen Monday and Tuesday at 2:00 and 3:30 p.m., Wednesday and Thursday at 2:00, 3:30 and 7:30 p.m., and Friday through Sunday at 11:00 a.m., 2:00 and 3:30 p.m.

Throughout the summer, **Exploring the Skies of the Season**, a relaxing and enjoyable tour of the current night sky above San Francisco, can now be seen at a new time, 12:30 p.m. every day of the week.

Members may use their complimentary passes to both of these sky shows.

Experience the music by Oscar-winning John Williams, composer of some of the greatest adventure-movie soundtracks of all time, including "Return of the Jedi," "The Empire Strikes Back," "Star Wars," "Raiders of the Lost Ark," "Jaws," "ET," "Superman," and "Close Encounters of the Third Kind" at **Close Encounters with John Williams**, the spectacular new laser light show by Laser Images, Inc.

Close Encounters with John Williams can be seen Wednesday through Sunday at 5:00 p.m. Starting in July. Call 221-0168 for show times.

The Beatles continues in the planetarium on Thursdays at 9:00 p.m., Friday and Saturday at 7:30, 9:00 and 10:30 p.m., and on Sunday at 7:30 and 9:00 p.m. Regular admission is \$4.50

for adults (\$3.50 for all 5:00 p.m. shows), and \$2.50 for children 6-12 and for senior citizens. Advance tickets available through Ticketron. Members' planetarium passes are **not** usable for **Laserium**.

SPECIAL OFFER FOR THE MONTH OF JULY FOR LASERIUM

Laserium is offering half-price tickets for all performances to members of the Academy upon presentation of your membership card. Your card will admit one or two people at the box-office from July 1 through July 31.

This offer is not available through Ticketron.

Inside the Academy

SUMMER HOURS BEGIN JULY 4!

The entire Academy will be open every day from 10 a.m. until 7:30 p.m. from July 4 through Labor Day, so take this opportunity to say hello to new or old friends in the aquarium, stroll through the science halls or visit temporary exhibits in the quiet evening hours. Friday through Sunday enjoy the Academy before a visit to **Laserium** for the 7:30 p.m. performance of **The Beatles**. (See under **Laserium** in this **Newsletter** for a half-price offer for July).

Dr. Bruce Bolt, President of the California Academy of Sciences recently announced the election of twelve new Fellows to the Academy this year.

Dr. Gregor M. Cailliet, *Professor in marine science and fisheries*, Moss Landing Marine Laboratories.

Dr. George F. Dales, Jr., *archaeologist*, University of California, Berkeley.

Dr. Richard C. Dugdale, *oceanographer, Associate Director for Marine Sciences*, Institute for Marine and Coastal Studies, *Director*, Allan Hancock Foundation, University of Southern California.

Dr. Michael Josselyn, *Director*, School of Science's Tiburon Center for Environmental Studies, San Francisco State University.

Dr. Paul Licht, *herpetologist, former chairman of the Department of Zoology*, University of California, Berkeley.

Dr. John Martin, *oceanographer, Director*, Moss Landing Marine Laboratories.

Dr. Theodore Pietsch, *ichthyologist, Associate Professor and Curator of Fishes*, University of Washington.

Dr. Lewis F. Petrinovich, *comparative psychologist and ornithologist, Professor of Psychology*, University of California, Riverside.

Dr. Wynetka Ann King Reynolds, *zoologist, Chancellor of the California State University System*, California State University, Long Beach.

Dr. Hilgard O'Reilly Sternberg, *Professor of Geography*, University of California, Berkeley.

Dr. Adrienne Zihlman, *Professor of Anthropology*, University of California, Santa Cruz.

Election to this body is in recognition of unusual attainments in science and active participation in the advancement of the work of the Academy. By charter, the number is limited to 300 persons who are elected for life. The new Fellows will be honored at the Annual Fellows' Banquet early in October.

Special Performance of L'Chayim Israeli Folkdancers

Sunday, July 31
2 - 3 p.m.
Wattis Hall of Man

In conjunction with "Crossroads of the Ancient World: Israel's Archaeological Heritage", L'Chayim Israeli Folkdancers will perform traditional dances and teach dances to interested members of the audience.

This group of ten dancers was selected to represent Israeli Folkdance at the 1983 San Francisco Ethnic Dance Festival this June, and has performed for Jewish organizations, senior and singles groups and local synagogues.

NEW SIERRA TROUT STREAM AT THE AQUARIUM

If you have ever wondered where the "lunkers" hide in a crystal clear Sierra trout stream, a new display in the Steinhart Aquarium can help you. Visitors can see rainbow, brown, cutthroat and golden trout, (the state's freshwater fish), white-crowned sparrows and native Sierra plants at the riverside. This exhibit was made possible with a generous grant from the Bothin Helping Fund and additional support from Pacific Telephone.

DEMONSTRATION

GYOTAKU: Japanese Fish Printing

Saturday, July 16
Noon to 1:00 p.m.
Hohfeld Hall

"Gyotaku" means "fish printing (gyo = fish, taku = rubbing). This art form originated in China or Japan in the early 1800's and is still practiced by sportsmen to preserve the records of their catches.

Many examples of this art form appear in the new exhibit, "Pressed On Paper", opening July 2nd in Hohfeld Hall. Join gyotaku artist Chris Dewees as he demonstrates his skill. You will gain an appreciation for the beauty and variety of marine creatures!

Kenya Safari

August 13 - 31

This year's Academy trip to Kenya combines the adventure of a traditional safari with an in-depth study of the conservation issues facing Kenya today. The tour begins in Nairobi with a full day of seminars conducted by researchers, conservationists and government officials as they address issues facing the country, its people and its resources. Safari destinations have been selected to reflect these issues. Members will visit *Lewa Downs, Aberdare Forest, Amboseli National Park, Tsavo, East and West and Maasai Mara*. On our return to Nairobi, we will recap what has been learned on safari. This is an ideal trip for those who have never been on safari as well as for those who have been and wish a more in-depth experience. Cost is \$2980 for land and \$1089 for air. For information, please call the Academy Travel Office at (415) 221-5100.

A Safari to the National Parks of Brazil

September 4-25

From the mystique of the Amazonian jungles to the savannahs of Central Brazil, Academy members will probe the history of life forms on the South American Continent. With the leadership of Dr. Robert T. Orr, and naturalist Walt Anderson we will discover and photograph the major large land mammals, the tropical flora, and the beautiful butterflies which inhabit Brazil today. Several Brazilian naturalists will assist in the field as members explore the national parks: Amazonia, Pantanal, Emas, Iguacu and Itatiaia. Cost is \$3690 for land arrangements and \$1378 for air fare at current rates. Participation limited to 17 persons. For information, call Betchart Expeditions at (408) 245-9517.

Hudson River Fall Foliage Cruise and Museums of New York

September 27 - October 8

Experience the brilliant foliage of autumn in New England on this special 12-day tour. The sights of New York City are included as we enjoy special visits to the American Museum of Natural History, the Brooklyn Botanical Garden, and the Metropolitan Museum. Members will board the *America* at Haddam, Connecticut to cruise up the Hudson River during this most picturesque and colorful time of the year. Cost is \$2047 for land and cruise arrangements, \$399 for air. For information, please call Siemer & Hand Travel at (415) 788-7186

Fish Collecting for Scuba Divers In the Sea of Cortez

October 16 - 22

Step aboard the *M.V. Don Jose* to enjoy some of the finest scuba diving in the Sea of Cortez and to collect fish for the Academy's own Steinhart Aquarium! Lynn and Robert Dunne will lead this 7-day expedition and will supervise our collecting efforts. Possible dive spots include Isla San Francisco, Los Islotes, Bajo Charro, Las Animas, Isla San Diego, and a dive on a wreck in the San Lorenzo Channel. Mantas, schooling hammerheads, seafan gardens curtained with fish, and sea lion diving companions will make this a memorable diving experience. Cost is \$895 for land/cruise arrangements. An additional tax-deductible amount of \$50 is added to cover the cost of shipment of col-

lected specimens. Air fare is currently \$270 to La Paz. For information, please call the Education/Travel Office at (415) 221-5100.

Wonders and Wildlife of Nepal and India

October 28-November 20

Ancient Mysore and Goa

November 19-27

In Nepal, try game-viewing from elephant-back at famous Tiger Tops in Chitwan National park! Visit the exotic cities of India, from Delhi, Udaipur, Varanasi, Agra, and many more. An optional extension to Mysore and Goa is also offered. The tour will be led by Antony Hutt. Cost is \$2940 per person, and \$2000 for air fare. For information, please call Bryan International Travel at (415) 986-0967.

THE ARCHAEOLOGY AND HISTORY OF CENTRAL MEXICO AND OAXACA

January 18 - 30, 1984

Join George Stuart, staff member of National Geographic and author of "The Mysterious Maya", as he leads the Academy's specially planned exploration of Central Mexico and Oaxaca. From Mexico City, participants will visit the magnificent ruins of Teotihuacan, the ancient Toltec capital of Tula, Tepotzotlan, the graceful pyramid of Tenayuca, and the wonderful National Museum of Anthropology. Members will drive west from Mexico City to the extraordinary site of Malinalco, south to the colonial town of Taxco, and then on to Cuernavaca, viewing numerous examples of Maya, Teotihuacan, Toltec, Zapotec and Mixtec art and architecture. From Cuernavaca we travel back to Mexico City, visiting Puebla en route. A short flight from Mexico City brings members to Oaxaca and its famous site, Monte Alban. We will enjoy market day in Oaxaca and visit the town of Mitla before our exploration is concluded with a flight back to San Francisco. Cost is \$1465 per person for land and \$375 for air. For information, please call the Academy Travel Office at (415) 221-5100.

An Extraordinary Travel Opportunity

NORTHWEST PASSAGE VOYAGE

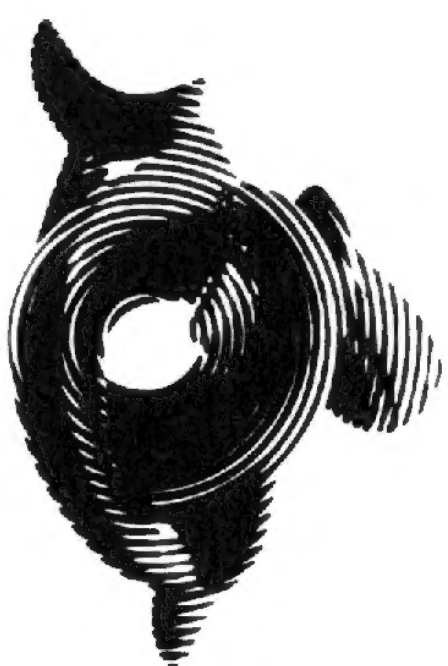
August 19 - September 27, 1984

A "first" in the history of adventure voyages will be made when the *M.S. Lindblad Explorer* carves out a path from Greenland across arctic waters through the Yukon and Alaska to reach Yokohama. The *Explorer* is a one-of-a-kind vessel, specially designed with a doubly reinforced hull, bow thruster, and powerful engines to travel safely and easily through the pack ice of the polar regions.

Passengers joining this 36-day voyage will embark in St. John's, Newfoundland, and head north via Greenland into Dundas Harbour and Resolute Bay. The ship will then head west to Prince Leopold Island, on through Bellot and James Ross Straits, and to Gjoa Haven. "Northwest Passage" participants will also explore Queen Maud Gulf, Perry River, Victoria Island, Banks Island, Kendall Island (Northwest Territory) and Herschel Island (Yukon). The *Explorer* will then reach Point Barrow on the northernmost tip of Alaska. From here the ship sets off through the Bering Strait to St. Lawrence Island. The remainder of this historical voyage will be filled with intriguing visits to Pinnacle, St. Matthew and Attu Islands before reaching Kushiro (Hokkaido), and Yokohama. Some of the world's finest naturalists and scholars will share their knowledge of the history, culture and wildlife of this area. Costs for the extraordinary voyage will range from \$15,000 to \$20,000 per person. This is a fund raising activity for the Academy; a portion of the listed cost will be tax-deductible. For information write or call the Academy Travel Office, (415) 221-5100.

No. 523

Golden Gate Park, San Francisco, California 94118
(415) 221-5100 221-4214



California
Academy of
Sciences

Open every day of the year
from 10 to 5



California
Academy
of Sciences
Newsletter
July, 1983

Non-Profit Organization
U.S. Postage Paid
Permit No. 7544
San Francisco, California